8.3.3 Normalized Annual End Uses of Water in Select Restaurants in Western United States (1)						
Fixture/End Use (2) Faucets Dishwashing Toilets/Urinals Ice Making	Range of Water Use (gal/SF) 68.9 - 250 54.4 - 183.3 25.6 - 75 7.8 - 44.6	Rar	nge of Water Use (gal/seat) 1225 - 4630 970 - 3000 455 - 1230 140 - 1440		nge of Water (gal/meal/day 1.1 - 2.6 0.9 - 1.4 0.4 - 0.5 0.1 - 0.9	
Total Indoor Use	163.3 - 563.3 (3)		2910 - 15350 (4)		2.7 - 16.2	(4)
Building Size (SF)	1200 - 9800	Seats:	73 - 253	Meals:	190 - 800	
	Logged average daily use (thousand gal) 1.5 - 9.7	Ind	oor peak instantan demand, gpm (5) 21.1 - 59.6			
Benchmarking Values for Restaurants (6) Gal./SF/year Gal./meal Gal./seat/day Gal./employee/day		<u>N</u> 90 90 90 90	25th Percentile o 130 - 331 6 - 9 20 - 31 86 - 122	f Users		
Note(s): Familiy-style dine-in establishments. Four restaurants in southern California, one in Phoenix, AZ. 1) Water use data for the buildings was collected over a few days. Estimates of annual use were created by accounting for seasonal use and other variables, billing data, and interviews with building managers. 2) Based on three restaurants. 3) Based on four restaurants. 4) Based on five restaurants. 5) gpm = gallons per minute. 6) The study derived efficiency benchmarks by analyzing measured data and audit data. The benchmark was set at the						
Source(s): American Wat	American Water Works Association Research Foundation, Commercial and Institutional End Uses of Water, 2000.					